

Leading New Scientific Frontiers in Mathematics “Using [EU] Funding”

NH Hotel Amersfoort, Stationsstraat 75

December 14, 2018, 12.00-17.30

REGISTRATION (free, but mandatory): bureau@platformwiskunde.nl

The report “Een Deltaplan voor de Nederlandse wiskunde”¹ has been very successful, leading to a “Sectorplan Beta+Techniek” with several MEuro additional funding for research in mathematics for the next 6 years (Actions 3-4 in the Deltaplan). Other actions will need to be addressed as well, and NWO is providing funding for this. Important is Action 11, “Aansluiting bij Europa” (connecting to Europe), focus of this meeting. We encourage mathematicians to attend and take part in the discussions; it is important that mathematicians become much more successful in acquiring European funding. There are ample opportunities, but so far the participation by the Dutch mathematical community is minimal. This meeting is a first step towards changing this in a positive direction.

The content

The Dutch mathematicians belong to the best in the world, and yet in the most prestigious grants that Europe has to offer we do not live up to our reputation, and this afternoon, we want to turn the tide. Therefore we have invited speakers who have been successful in obtaining projects for important mathematical challenges. Working across all fields of mathematics the speakers will discuss how the funding enables them to make a step-jump as a scientific leader in the international arena. To show the breadth of potential funding, the speakers represent different national and European schemes. While the invited speakers inspire us about the potential funding possibilities, this discussion would not be complete without articulating your ideas on how to bring the outstanding quality and talent of Dutch mathematicians to the forefront of grant acquisition.

Therefore, during the second part of the afternoon, we will organize round table discussions investigating the question: how can we, as the Dutch mathematicians, take the lead in grant acquisition, and surpass the Dutch success in ERC, RIAiA, & Marie Curie. As the Netherlands is already the 4th or 5th most successful country in Europe when it comes to obtaining ERC grants, and is already participating in 1/3 of all Research and Innovation actions, this makes this a very ambitious question. We invite you be an active participant, contribute your ideas on how we can achieve this goal, and to learn about opportunities for funding that will enable you to pursue your personal insights and goals.

The aim

- To become a successful participant in the European grant arena
- To be able to formulate a personal strategy for obtaining grants
- To contribute to an action plan for the Dutch mathematical community to become an active player and leader in grant acquisition

¹ See the PWN website: <https://www.platformwiskunde.nl/wp-content/uploads/2016/10/DeltaplanWiskunde.pdf>

Access to documentation

The applicant will have access to the following documentation:

- Handouts: Handouts of the presentations of applicants who have successfully acquired a grant, as well as the outcomes of the round table discussions.
- Elucidations: We will provide you with short descriptions of the different grant schemes.

Becoming a reviewer

Besides addressing how to successfully participate in European funding schemes, for which successful mathematicians have been invited, there will also be researchers that will share their experience being a reviewer for EU projects. Being able to “have a look into the kitchen” is extremely valuable, and some of these experiences, and the benefits (“what is in it for me”) it leads to, will be described.

Organisation

The meeting is organised by Platform Wiskunde Nederland, in close collaboration with Yellow Research (<https://www.yellowresearch.nl/>), and funded by NWO.

Programme (chair: Lotte Jaspers, Yellow Research)

12.00-13.00: Lunch

13.00-14.30: Successful applications and reviewers highlighting several project types

14.30-15.00: Coffee/tea break

15.00-16.00: Round table discussions

16.00-16.45: Feedback

16.45-17.00: Wrap-up

17.00-17.30: Drinks and afterthoughts

The speakers

- Gianluigi Rozza (SISSA, Trieste) is an expert in model order reduction and reduced basis methods. In 2016, he applied for and received an ERC Consolidator grant AROMA-CFD. His research group at SISSA mathLab is developing open source software for model reduction and is dealing with several industrial cooperations, mostly in the naval-mechanical field combining MOR with HPC and data science. He is part of the EID H2020 project European ROMSOC.
- Alessandra Micheletti (Università degli Studi di Milano) started a Special Interest Group on “Mathematics for Big Data” within the European Consortium for Mathematics in Industry in 2017, and obtained a Marie-Sklodowska-Curie EID (European Industrial Doctorate) grant, together with colleagues from Serbia, Portugal and The Netherlands. Soon, 7 PhD students will start working in the project.
- Nicolas Thiery (Université Paris Sud) had the idea to start a project to create an open source computational mathematics ecosystem, delivering a flexible toolkit enabling research groups to set up Virtual Research Environments, customised to meet the varied needs of research projects in pure mathematics and applications, and supporting the full research life-cycle from exploration, through proof and publication, to archival and sharing of data and code. This led to OpenDreamKit, a Horizon 2020 European Research Infrastructure project.